

553, 06f

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
21 October 2004 (21.10.2004)

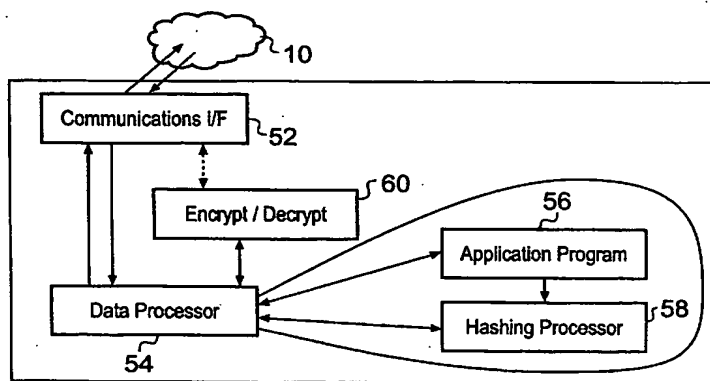
PCT

(10) International Publication Number  
**WO 2004/091135 A1**

- (51) International Patent Classification<sup>7</sup>: **H04L 9/32**
- (21) International Application Number: **PCT/GB2004/001549**
- (22) International Filing Date: **8 April 2004 (08.04.2004)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:  
0308422.5 **11 April 2003 (11.04.2003) GB**
- (71) Applicant (for all designated States except PG, US): **NEXTENDERS (INDIA) PRIVATE LIMITED [IN/IN];** Yuchit, Juhu Tara Road, Mumbai 400 049 (IN).
- (71) Applicant (for PG only): **ZOOM CORTEX LIMITED [GB/GB];** Carnisla 2B, Aldersey Road, Guildford GU1 2ES (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **SHEVADE, Ravindra, Waman [IN/IN];** D-01, 403 Santoor, Lokpuram, off Pokhran Road No. 2, Thane 400 601, Maharashtra (IN).
- (74) Agents: **DEVILE, Jonathan, Mark et al.;** D Young & Co, 21 New Fetter Lane, London EC4A 1DA (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): **ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**
- Published:  
— with international search report

[Continued on next page]

(54) Title: **SYSTEM AND METHOD FOR AUTHENTICATING DOCUMENTS**



(57) Abstract: A data processing system for distributing and authenticating documents from a plurality of parties to a recipient data processing apparatus. The system comprises a plurality of document distribution devices each being operable to generate an original hash value from the content of a file containing a document to be distributed. A recipient data processing apparatus is operable to receive the original hash values from each of the plurality of document distribution devices. The recipient data processing apparatus is operable to generate an original super hash value from the plurality of the original hash values received, and to distribute the original super hash value to each of the document distribution devices. The system for distributing documents can provide an increased assurance that documents to be distributed have not been tampered with during communication or by an unscrupulous distributing party or by an unscrupulous recipient. The improvement is provided in part by only submitting a hash value of the document to be distributed. The hash value ensures that the eventual recipient of the document can be assured that no changes to the document have been made. Furthermore, by forming the super hash value, all parties, which are distributing documents, can be assured that none of the other parties have altered their documents, or that these have not been altered on the recipient side.

WO 2004/091135 A1



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*